

AWM1278 AWM1280

RELAY DRIVER TTL-DTL/negative line

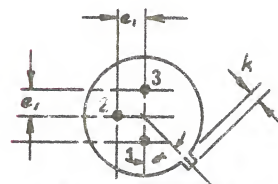
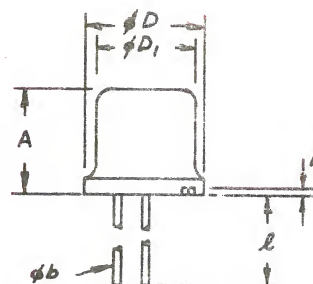
DESCRIPTION

The AWM 1278 and AWM 1280 convert TTL/DTL logic levels to negative 50 volt and negative 20 volt logic levels respectively. They are suitable for driving 20mA relays without additional components.

GENERAL CHARACTERISTICS

Package:	T05 (isolated case)
Max. storage temp:	150°C
Operating temp. range:	0°C to 70°C
Positive supply voltage:	4.5V to 8V
Negative supply voltage	
AWM 1278:	70V working
AWM 1280:	20V working
Max. output current:	25mA
Max. Package Dissipation:	200mW

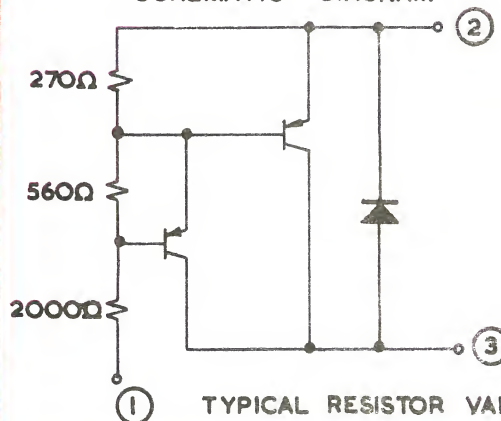
DIMENSIONAL OUTLINE



	M	N	MAX
A	240	250	
D	33	30	
D1	305	335	
e1		100	
h	009	125	
k	029	015	
b	016	021	
l		1 min.	
α		45°	

Dimensions in inches

SCHEMATIC DIAGRAM



TYPICAL RESISTOR VALUES

AMALGAMATED WIRELESS (AUSTRALASIA) LTD

348 VICTORIA ROAD RYDALMERE NSW AUSTRALIA

AWA

INTEGRATED CIRCUIT

AWV PRIVATE MAIL BAG ERMINGTON 2115 TELEGRAMS "VALVES" ERMINGTON TELEPHONE 638 0411

AWM1278
AWM1280

PIN	FUNCTION	PARAMETER (T= 25°C)	FORCING FUNCTION	LIMITS				UNITS
				AWM 1278		AWM 1280		
				MIN	MAX	MIN	MAX	
1	Input	High state: voltage V_{IH} current (see note)	$V_{CC} = 4.5V$	2.4	5	2.4	5	V
		Low state: voltage(V_{IL}) current(I_{IL})	$V_{CC} = 4.5V$	-1	0.8 -4	-1	0.8 -4	V mA
2	Positive Supply(V_{CC})	Voltage current		-1	8 30	-1	8 30	V mA
3	Output	Off state: voltage current	$V_{CC} = 4.5V$ $V_{IH} = 2.4V$	-70 0	5 0.1	-20 0	5 0.1	V mA
		On state: voltage current	$V_{CC} = 4.5V$ $I_{Load}=20mA$ $V_{CC} = 4.5V$	0.5	3.0 25	0.5	3.0 25	V mA

Note. The input load is equivalent to 2000 ohms returned to V_{CC} minus 1.4 Volt.

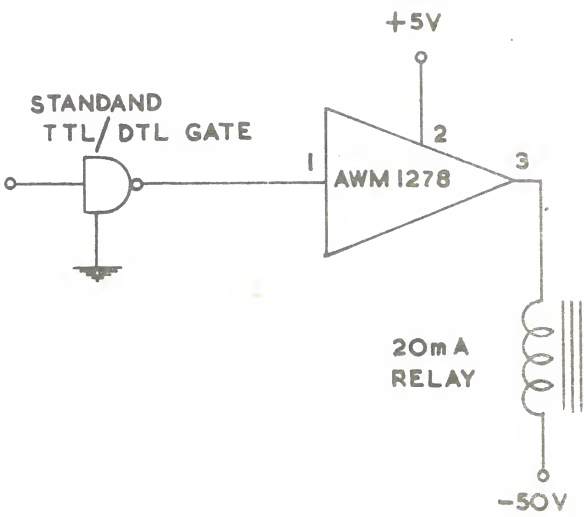


FIGURE 1 TYPICAL APPLICATION
AWM1278

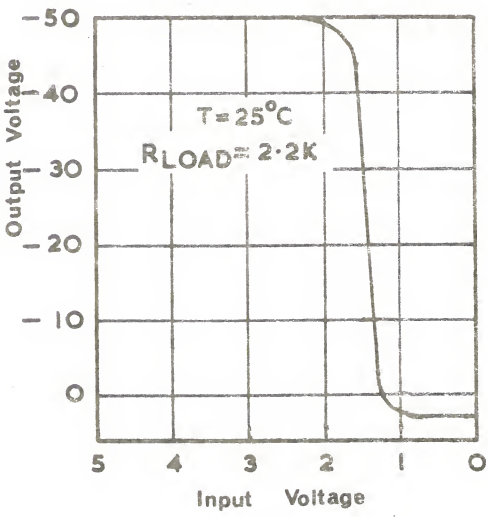


FIGURE 2 TYPICAL TRANSFER
CHARACTERISTIC
AWM 1278